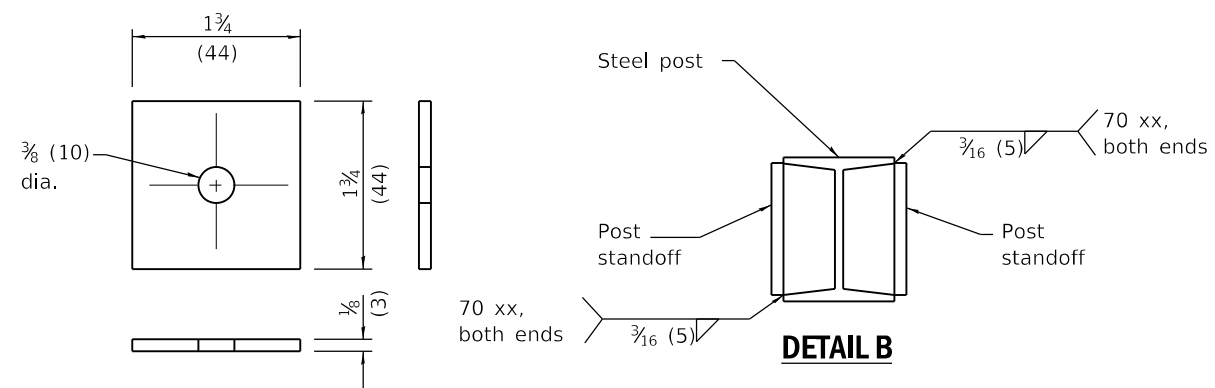
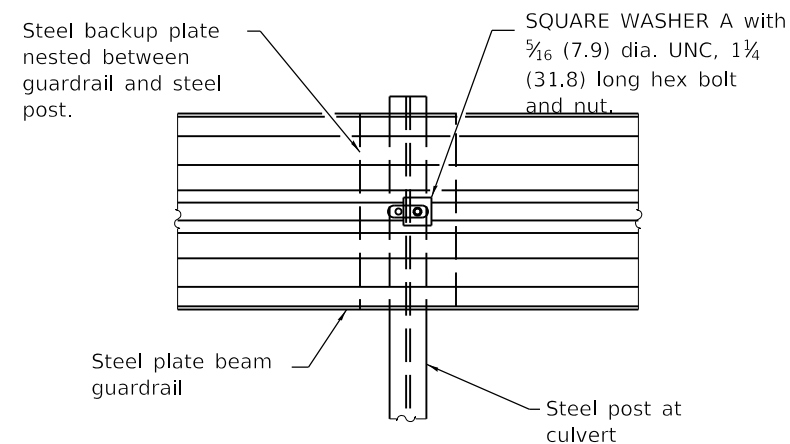


PLAN

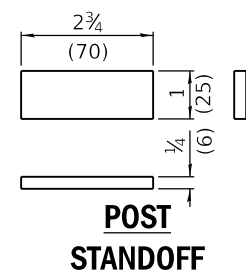


SQUARE WASHER A

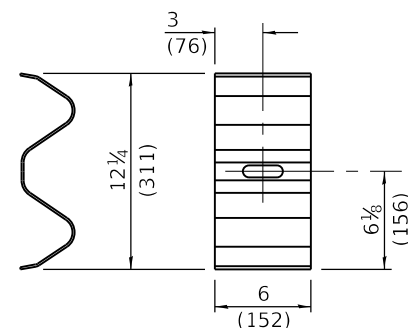
DETAIL B



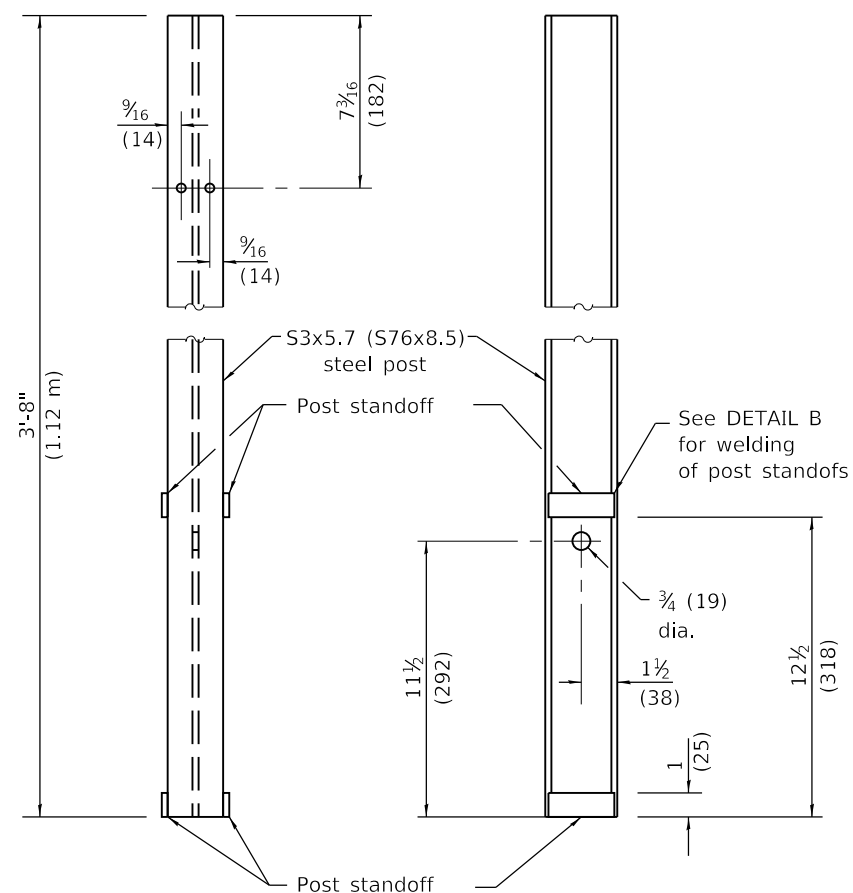
DETAIL A



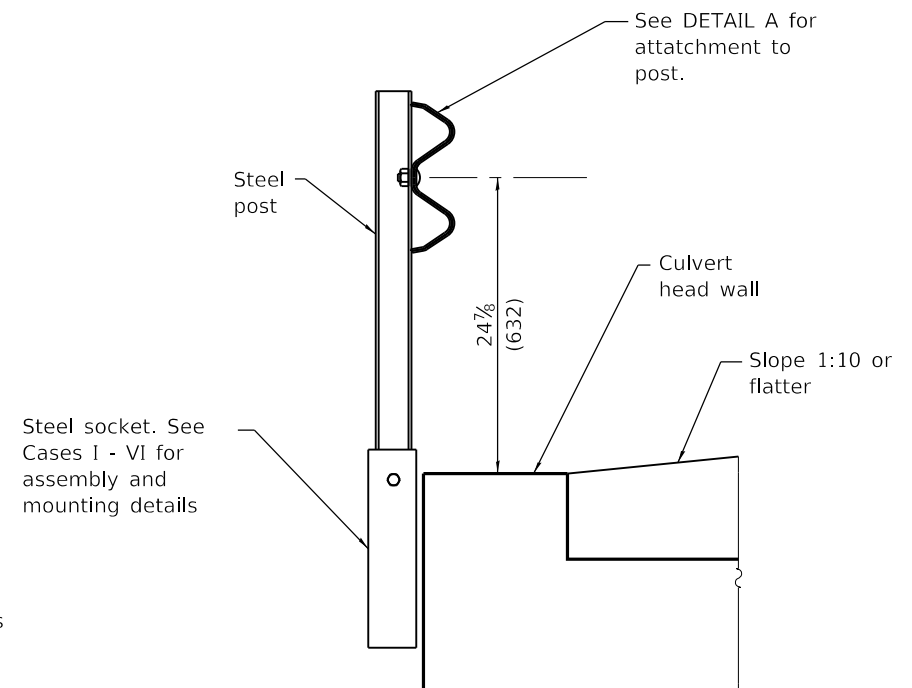
POST STANDOFF



BACKUP PLATE



STEEL POST



SECTION A-A

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

See Standard 630006 for details of non-blocked guardrail not shown.

All threaded rods and bolts shall be installed with heavy hex nuts and standard washers unless noted otherwise.

All dimensions are in inches (millimeters) unless otherwise shown.

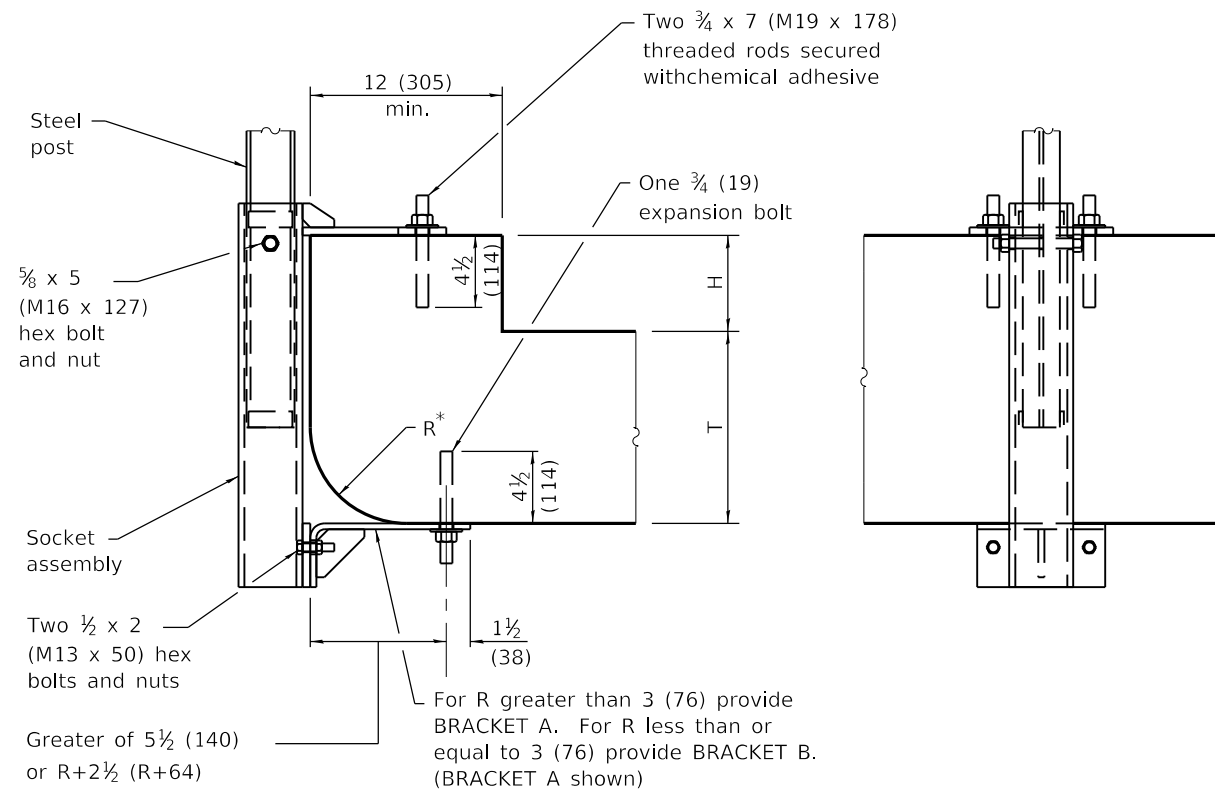
PASSED January 1, 2017 Michael Brand ENGINEER OF POLICY AND PROCEDURES	ISSUED 1-1-17
APPROVED January 1, 2017 Matthew M. Adams ENGINEER OF DESIGN AND ENVIRONMENT	

DATE	REVISIONS
1-1-17	New Standard.

**WEAK POST GUARDRAIL
ATTACHED TO CULVERT**

(Sheet 1 of 6)

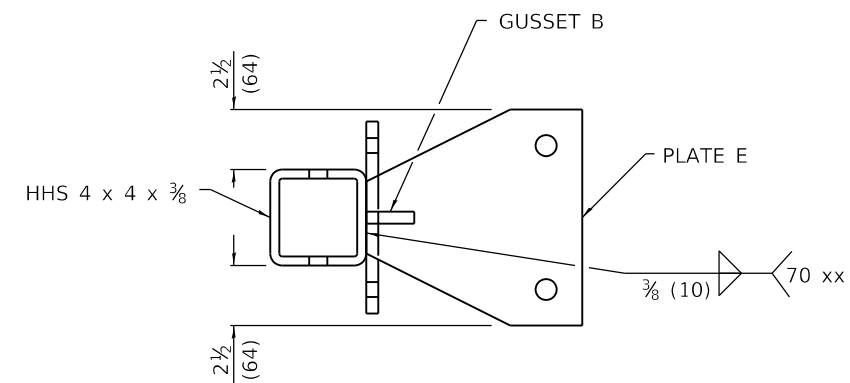
STANDARD 630111



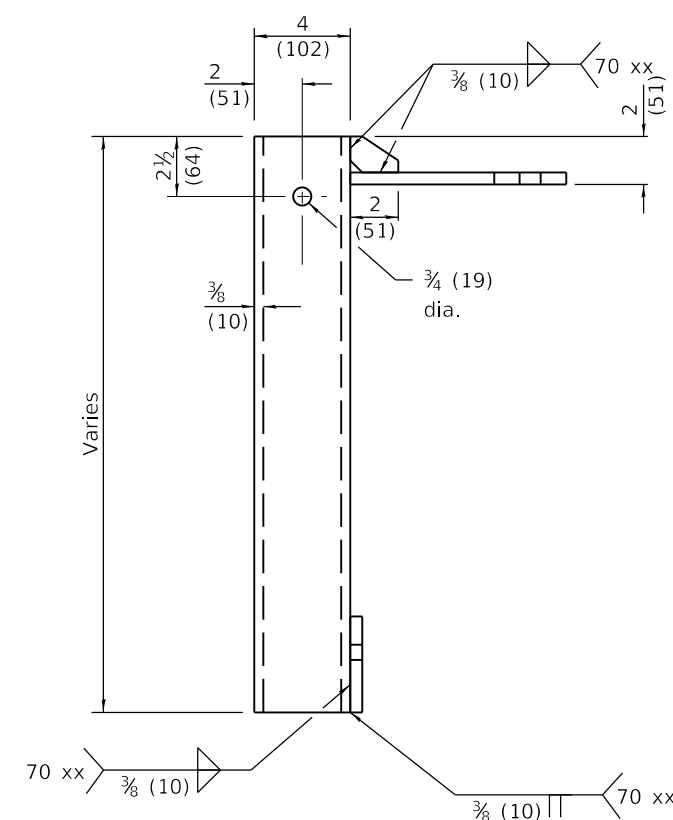
CROSS SECTION

ELEVATION

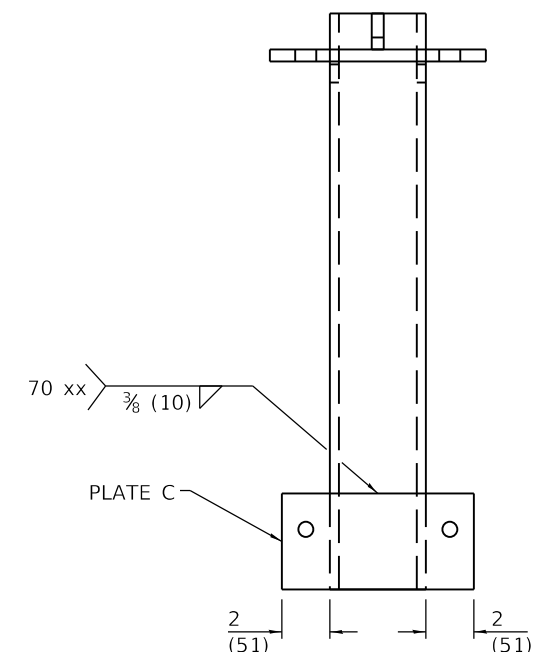
CASE I, (H+T-R) < 18 (457), TOP MOUNT



TOP VIEW



SIDE VIEW



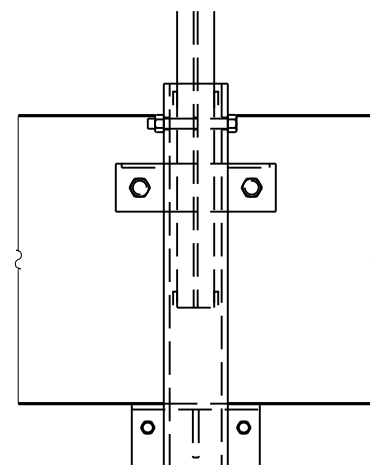
FRONT VIEW

SOCKET ASSEMBLY FOR CASE I

WEAK POST GUARDRAIL ATTACHED TO CULVERT

(Sheet 2 of 6)

STANDARD 630111



ELEVATION

Technical drawing of a square plate with a central square hole. The plate is labeled with dimensions and material specifications:

- GUSSET G**: Label for the top gusset.
- HHS 4 x 4 x $\frac{3}{8}$** : Label for the main plate material and dimensions.
- GUSSET G**: Label for the bottom gusset.


[illegible]

FRONT VIEW

Technical drawing of a bracket assembly showing dimensions and components:

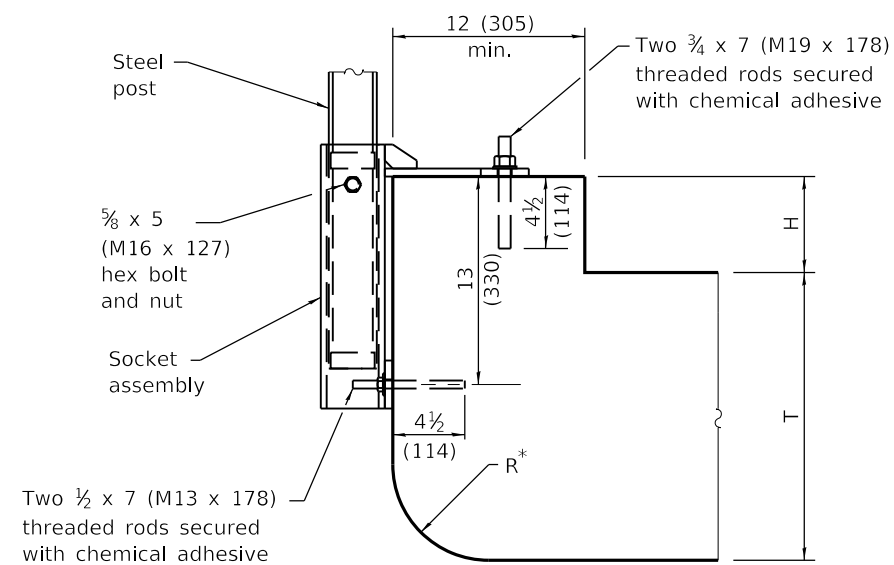
- Steel post
- Two $\frac{3}{4} \times 11$ (M19 x 279) threaded rods secured with chemical adhesive
- $\frac{5}{8} \times 5$ (M16 x 127) hex bolt and nut
- Socket assembly
- Two $\frac{1}{2} \times 2$ (M13 x 50) hex bolts
- Greater of $5\frac{1}{2}$ (140) or $R+2\frac{1}{2}$ ($R+64$)
- 12 (305) min.
- 2 (51)
- 9 (229)
- R^*
- 4 $\frac{1}{2}$ (114)
- 4 $\frac{1}{2}$ (114)
- 1 $\frac{1}{2}$ (38)
- One $\frac{3}{4}$ (19) expansion bolt
- For R greater than 3 (76) provide BRACKET A. For R less than or equal to 3 (76) provide BRACKET B. (BRACKET A shown)

ELEVATION

 Illinois Department of Transportation		ISSUED 1-1-17
PASSED	January 1, 2017 <i>Michael Brand</i>	
ENGINEER OF POLICY AND PROCEDURES		
APPROVED	January 1, 2017 <i>Warren R. Bels</i>	
ENGINEER OF DESIGN AND ENVIRONMENT		

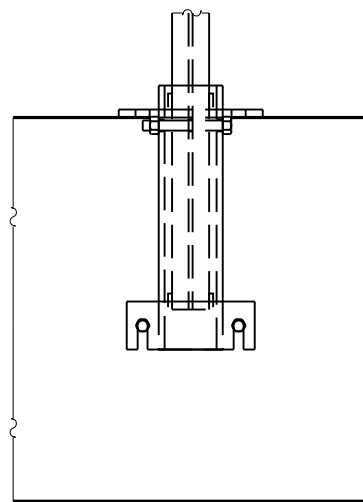
(Sheet 3 of 6)

STANDARD 630111



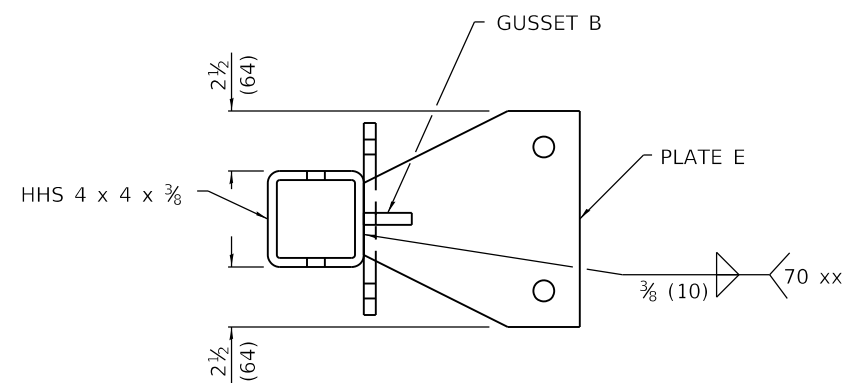
* R varies between 0 to 6 (152)

CROSS SECTION

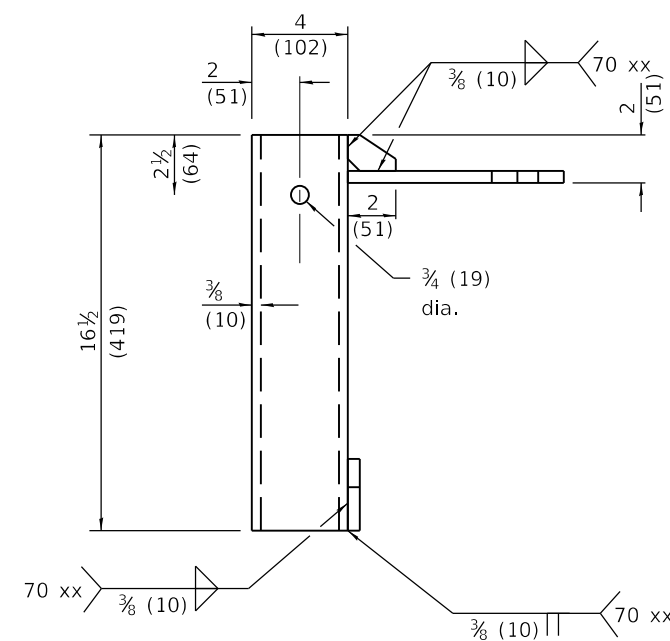


ELEVATION

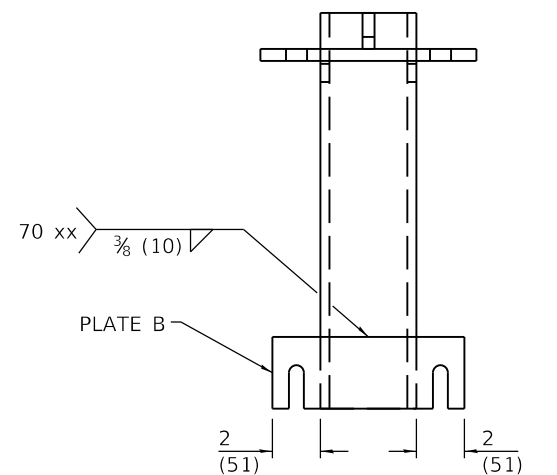
CASE IV, (H+T-R) ≥ 18 (457), TOP MOUNT



TOP VIEW

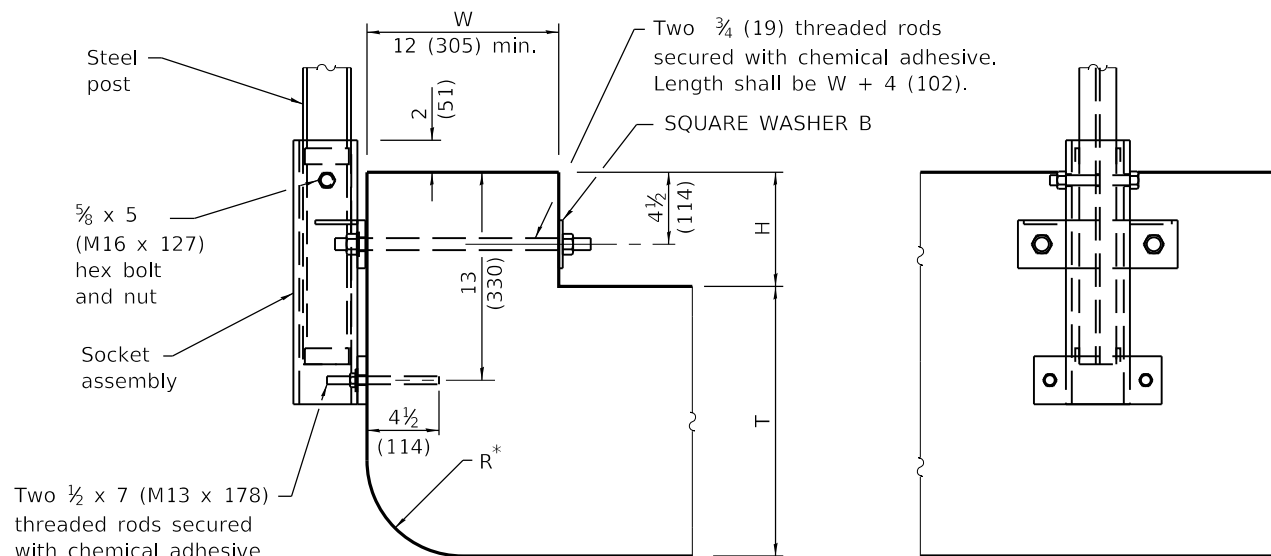


SIDE VIEW



FRONT VIEW

SOCKET ASSEMBLY FOR CASE IV

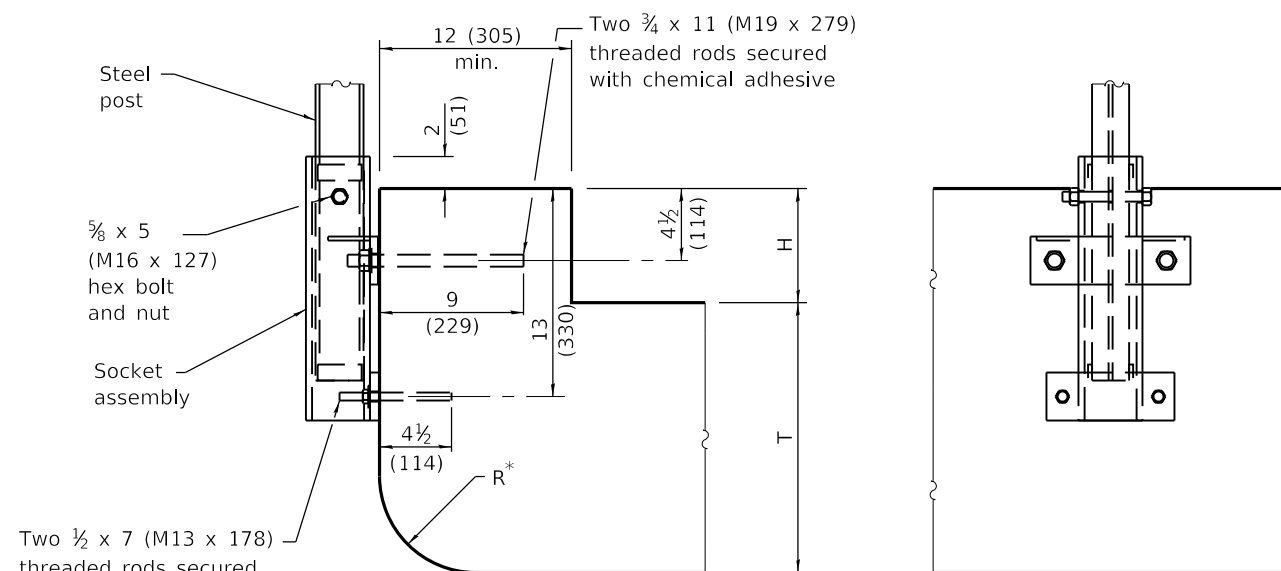


* R varies between 0 to 6 (152)

CROSS SECTION

ELEVATION

CASE V, (H+T-R) ≥ 18 (457), SIDE-MOUNT, THROUGH-BOLT

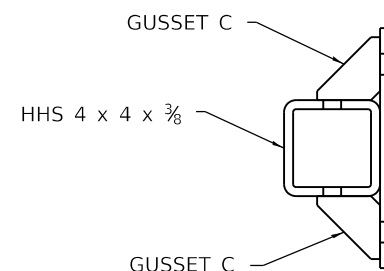


* R varies between 0 to 6 (152)

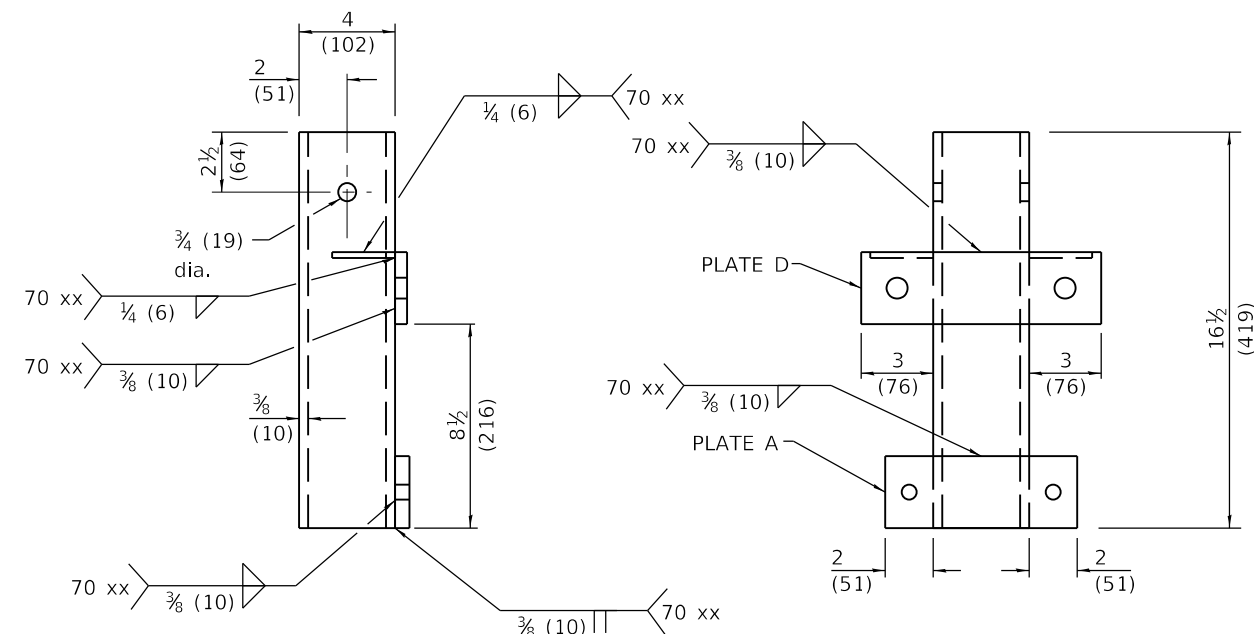
CROSS SECTION

ELEVATION

CASE VI, (H+T-R) ≥ 18 (457), SIDE-MOUNT ANCHORED



TOP VIEW



SIDE VIEW

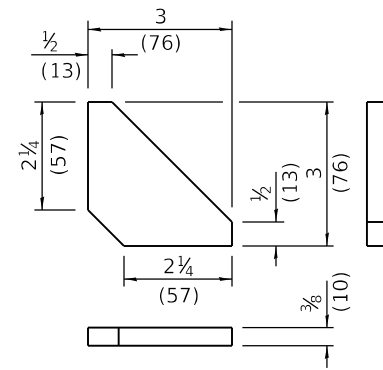
FRONT VIEW

SOCKET ASSEMBLY FOR CASES V & VI

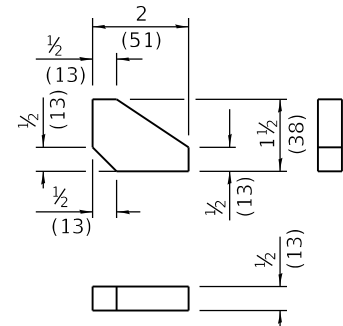
WEAK POST GUARDRAIL ATTACHED TO CULVERT

(Sheet 5 of 6)

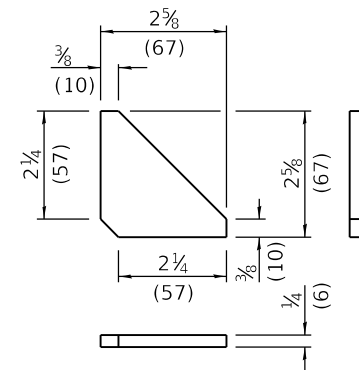
STANDARD 630111



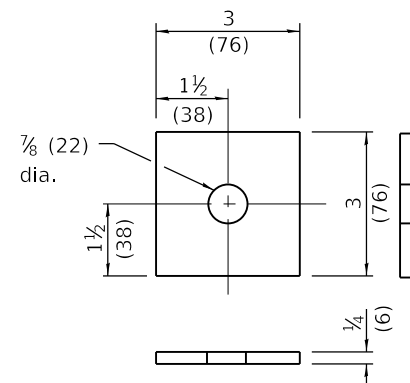
GUSSET A



GUSSET B



GUSSET C



SQUARE WASHER B

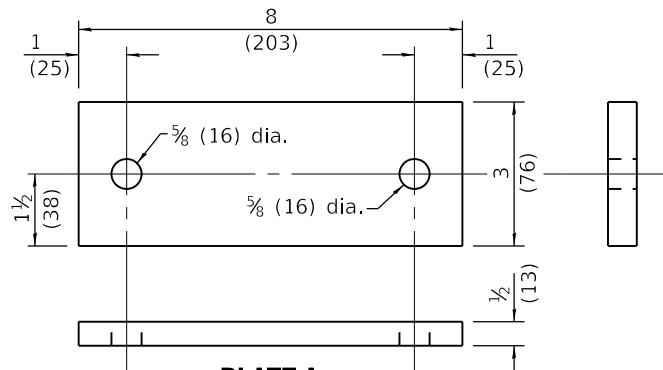


PLATE A

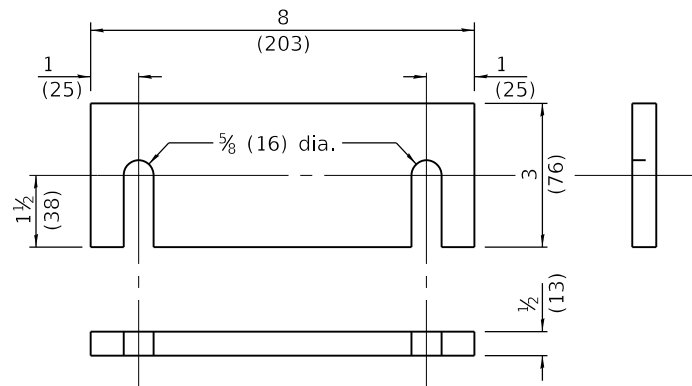


PLATE B

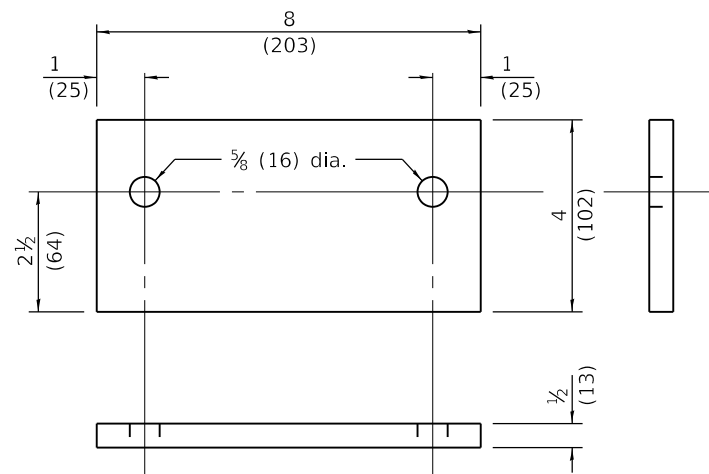


PLATE C

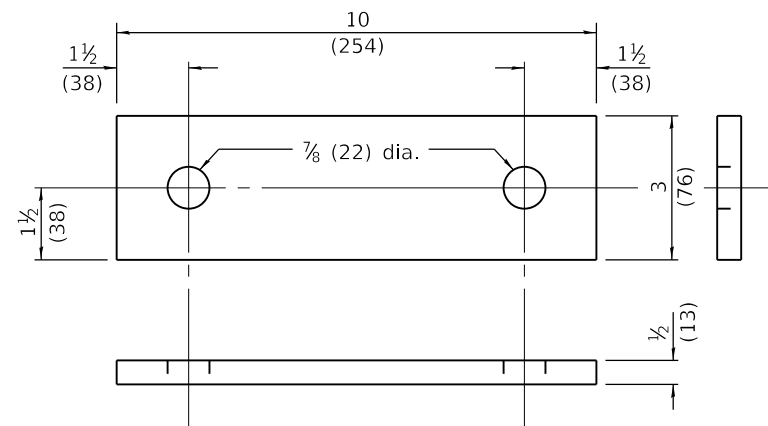
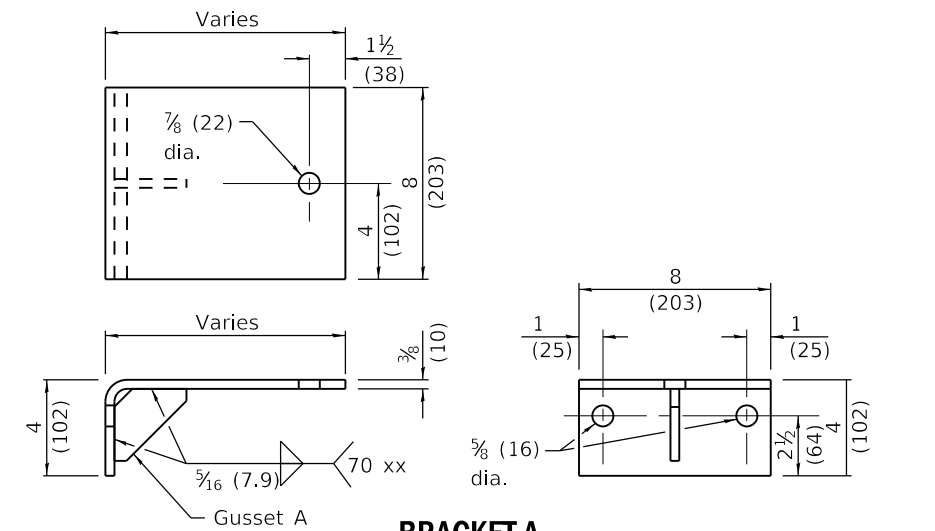
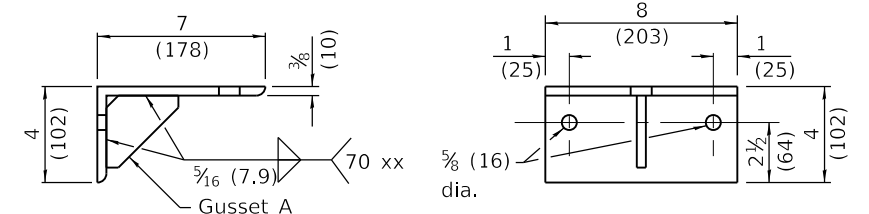
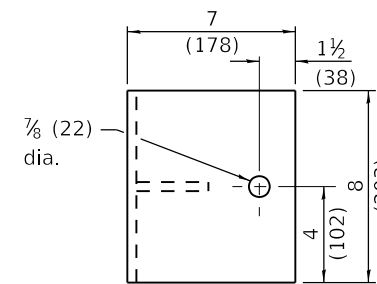


PLATE D



BRACKET A



BRACKET B

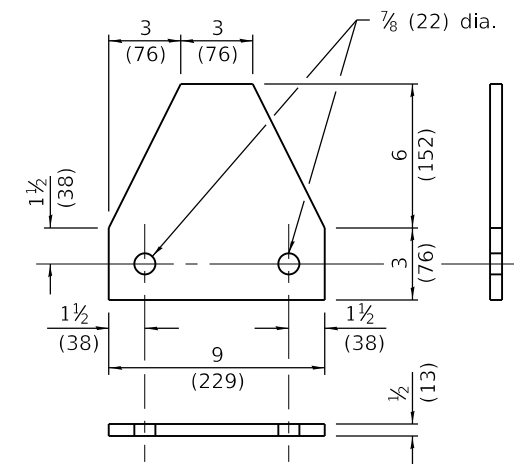


PLATE E

WEAK POST GUARDRAIL ATTACHED TO CULVERT

(Sheet 6 of 6)

STANDARD 630111